Test plan for Jira

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# INTRODUCTION

# 1.1 Purpose

This test plan describes the testing approach of three project in Atlassian Jira v8.14.0.

The document introduces:

* Test Strategy: rules the test will be based on, including the givens of the project (e.g.: start / end dates, objectives, assumptions); description of the process to set up a valid test (e.g.: entry / exit criteria, creation of test cases, specific tasks to perform, scheduling, data strategy).
* Execution Strategy: describes how the test will be performed and the process to identify and report defects.
* Test Management: process to handle the logistics of the test and all the events that come up during execution (e.g.: communications, escalation procedures, risk and mitigation, team roster)

# 1.2 Project overview

Jira is a software development tool for agile working, by giving your team the tools to easily create & estimate stories, build a sprint backlog, identify team commitments & velocity, visualize team activity, and report on your team's progress. Using Jira Software helps you plan and organize tasks, workflows, and reports for your agile team more efficiently.

There are three indicated projects: Toucan, Jeti and Coala, where the different functions have been tested.

1.3 Audience

* Project team members perform tasks specified in this document, and provide input and recommendations on this document.
* Project Manager Plans for the testing activities in the overall project schedule, reviews the document, tracks the performance of the test according to the task herein specified, approves the document and is accountable for the results.

2, TEST STRATEGY

# 2.1 Test objectives

A primary objective of testing is to: assure that the Application Under Test meets the functional and non-functional requirements, fit metrics for each quality requirement, satisfy the use case scenarios and maintain the quality of the product.

* Ensure the AUT conforms to functional and non-functional requirements
* Fit metrics for quality requirements
* Validate basic functionalities work correctly
* Bugs/issues are identified and fixed

# 2.2 Test assumptions

Key Assumptions:

Production-like data required and be available in the system prior to start of Functional Testing (like username and password).

General:

Performance testing is not considered for this estimation.

The defects will be tracked through Jira only.

Any defect fixes planned will be shared with Test Team prior to applying the fixes on the Test environment

The project will provide test planning, test design and test execution support

Project team has the knowledge and experience necessary, or has received adequate training in the system, the project and the testing processes.

There is no environment downtime during the test due to outages or defect fixes.. Functional Testing

During Functional testing, testing team will use preloaded data which is available on the system at the time of execution

The Test Team will perform Functional testing only on the three projects(Toucan, Jeti, Coala) in Atlassian Jira v8.14.0.

UAT

UAT test execution will be performed by end users

# 2.3 Test principles

* There will be entrance and exit criteria(ready and done).
* There will be common, consistent procedures for all teams supporting testing activities.
* Testing processes will be well defined, yet flexible, with the ability to change as needed.
* Testing activities will build upon previous stages to avoid redundancy or duplication of effort.
* Testing environment and data will emulate a production environment as much as possible.
* Testing will be a repeatable, quantifiable, and measurable activity.
* Testing will be divided into distinct phases, each with clearly defined objectives and goals.

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# 2.4 Data approach

In functional testing, Coala, Toucan and Jeti projects in Jira v8.1.3 will contain pre-loaded test data and which is used for testing activities.

# 2.5 Scope and levels of testing

## 2.5.1 Functional Testing

PURPOSE: Functional testing will be performed to check the functions of application. The functional testing is carried out by feeding the input and validates the output from the application.

SCOPE: Functions to be tested:

* login,
* logout,
* browse projects,
* create issues,
* browse issues,
* edit issues

as a logged in user.

TESTERS: Testing Team.

METHOD: The test will be performed according to Functional scripts, which are stored in Zephir and Jira.

TIMING: at the beginning of each circle.

3, EXECUTION STRATEGY

# 3.1 Entry And Exit Criteria (Ready And Done)

Entry criteria:

* Verify if the Test environment is available and ready for use.
* The requirement document should be available.
* Complete understanding of the application flow is required.
* The Test Plan Document should be ready.

Exit criteria:

* Verify if All tests planned have been run.
* Verify if the level of requirement coverage has been met.
* Verify if there are NO Critical or high severity defects that are left outstanding.
* Verify if all high risk areas are completely tested.
* There is no threat or bug in the software that has the potential of seriously affecting operations.
* All defects with severity 1 have been removed.
* Defect rate falls below the acceptable limits.
* Regression testing is performed after fixing any and all high severity defects.
* The pass rate of test cases as indicated in the test case document is approximately 95%.
* User Acceptance Testing (UAT) or alpha testing has been executed in the developer’s environment.
* All relevant documents such as test logs, test incident reports, and test findings reports have been prepared.

# 3.2. Validation and Defect Management

It is expected that the testers execute all the scripts in each of the cycles described above. However it is recognized that the testers could also do additional testing if they identify a possible gap in the scripts. This is especially relevant in the second cycle, when the Business analyst’s join the TCOE in the execution of the test, since the BUSINESS ANALYSTs have a deeper knowledge of the business processes. If a gap is identified, the scripts and traceability matrix will be updated and then a defect logged against the scripts. The defects will be tracked through HP ALM only. The technical team will gather information on a daily basis from HP ALM, and request additional details from the Defect Coordinator. The technical team will work on fixes. It is the responsibility of the tester to open the defects, link them to the corresponding script, assign an initial severity and status, retest and close the defect.

Defects found during the Testing will be categorized.

Categories are:

1 (Highest) This bug is critical enough to crash the system, cause file corruption, or cause potential data loss.

2 (High) It causes a lack of vital program functionality with workaround.

3 (Medium) This Bug will degrade the quality of the System. However there is an intelligent workaround for achieving the desired functionality - for example through another screen.

4 (Low) There is an insufficient or unclear error message, which has minimum impact on product use.

5(Lowest) There is an insufficient or unclear error message that has no impact on product use.

4 Test Deliverables and roles

Here mention all the Test Artifacts that will be delivered during different phases of the testing lifecycle.

Here are the sample deliverables

| * Test Plan * Test Cases * Requirement Traceability Matrix * Bug Reports * Test Strategy * Test Metrics * Customer Sign Off |
| --- |

4.1 PARTICIPANTS

# 4.1.1 Project Management

Project Manager: reviews the content of the Test Plan, Test Strategy and Test Estimates signs off on it.

# 4.1.2 Test Planning (Test Lead)

Ensure entrance criteria are used as input before start the execution. Develop test plan and the guidelines to create test conditions, test cases, expected results and execution scripts. Provide guidelines on how to manage defects. Attend status meetings in person or via the conference call line. Communicate to the test team any changes that need to be made to the test deliverables or application and when they will be completed. Provide on premise or telecommute support.

# 4.1.3. Test Team

Develop test conditions, test cases, expected results, and execution scripts. Perform execution and validation. Identify, document and prioritize defects according to the guidance provided by the Test lead. Re-test after software modifications have been made according to the schedule. Prepare testing metrics and provide regular status.

# 4.1.4. Test Lead

Acknowledge the completion of a section within a cycle. Give the OK to start next level of testing. Facilitate defect communications between testing team and technical / development team.

# 4.1.5. Development Team

Review testing deliverables (test plan, cases, scripts, expected results, etc.) and provide timely feedback. Assist in the validation of results (if requested). Support the development and testing processes being used to support the project. Certify correct components have been delivered to the test environment at the points specified in the testing schedule. Keep project team and leadership informed of potential software delivery date slips based on the current schedule. Define processes/tools to facilitate the initial and ongoing migration of components. Conduct first line investigation into execution discrepancies and assist test executors in creation of accurate defects. Implement fixes to defects according to schedule.

5 TEST ENVIRONMENT

A windows environment with Internet Explorer 8, 9 and 10, and with Firefox 96.0.2, as well as Google Chrome 97.0.4692.71and later should be available to each tester.